

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P197488

Luminaire Tested: **8WSL-LD2-110-UPL15-UNV-L850-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28105)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8WSL-LD2-110-UPL15-UNV-L850-CD2-U
Description: 8FT. Linear Wavestream System, 15% Uplight, L850
Light Source: (476) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT50W

Summary

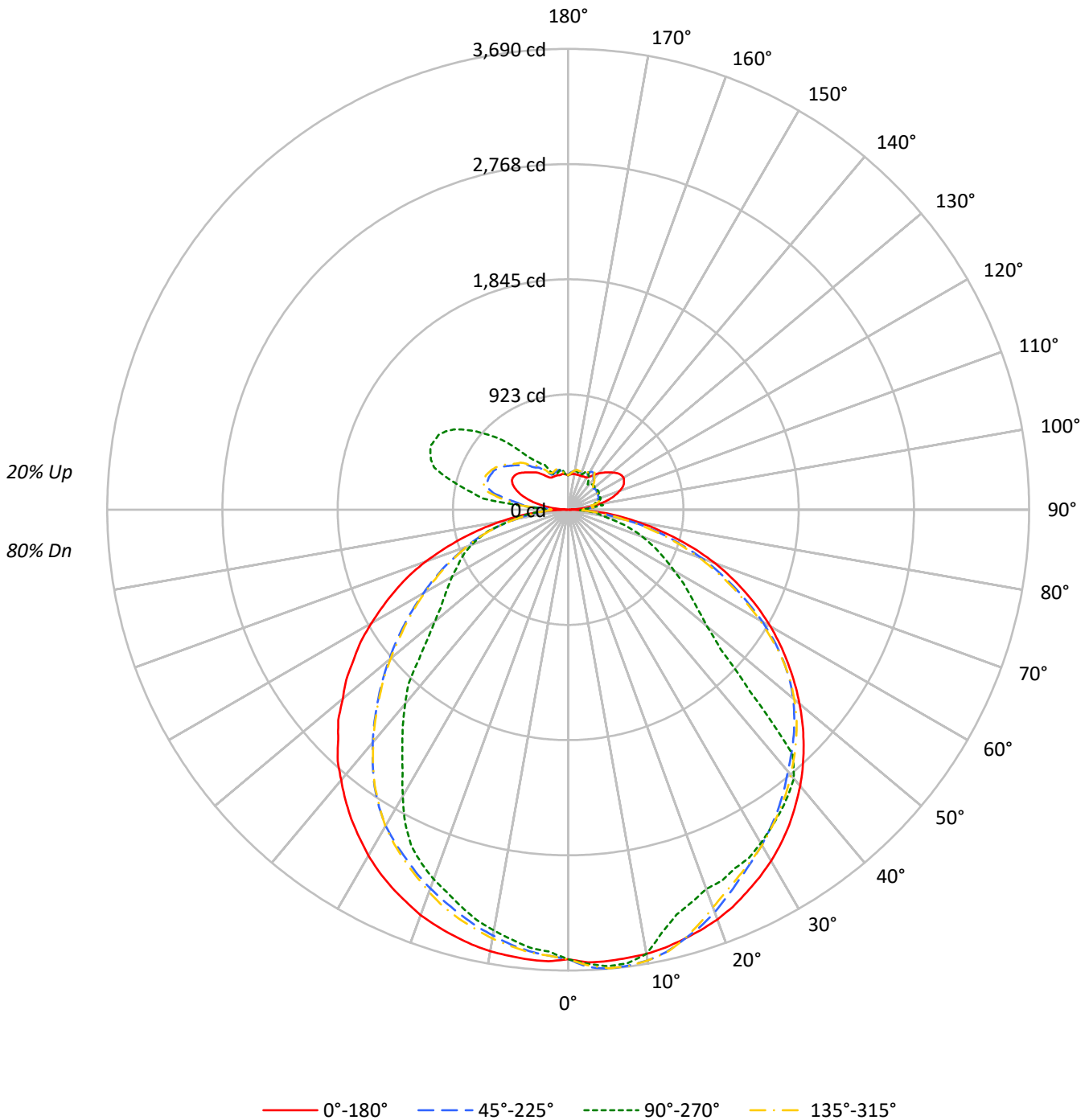
Lumens per Lamp: N/A
Luminaire Lumens: 12738.1 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.19 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P197488

CATALOG NUMBER: 8WSL-LD2-110-UPL15-UNV-L850-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P197488

CATALOG NUMBER: 8WSL-LD2-110-UPL15-UNV-L850-CD2-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | 20 | | | 20 | | | 20 |
| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 100 | 100 | 100 | 91 | 91 | 91 | 83 | 83 | 83 | 80 |
| 1 | 104 | 99 | 95 | 91 | 99 | 95 | 91 | 88 | 87 | 84 | 81 | 80 | 77 | 75 | 73 | 71 | 70 | 66 |
| 2 | 94 | 86 | 80 | 74 | 90 | 83 | 77 | 72 | 76 | 71 | 67 | 70 | 66 | 62 | 64 | 61 | 58 | 55 |
| 3 | 86 | 76 | 68 | 62 | 82 | 73 | 66 | 60 | 67 | 61 | 56 | 61 | 57 | 53 | 56 | 53 | 49 | 46 |
| 4 | 79 | 67 | 59 | 52 | 75 | 64 | 57 | 51 | 59 | 53 | 48 | 55 | 49 | 45 | 50 | 46 | 42 | 40 |
| 5 | 72 | 60 | 51 | 45 | 69 | 58 | 50 | 44 | 53 | 46 | 41 | 49 | 43 | 39 | 45 | 41 | 37 | 34 |
| 6 | 67 | 54 | 45 | 39 | 64 | 52 | 44 | 38 | 48 | 41 | 36 | 44 | 39 | 34 | 41 | 36 | 32 | 30 |
| 7 | 62 | 49 | 40 | 34 | 59 | 47 | 39 | 33 | 44 | 37 | 32 | 40 | 35 | 30 | 38 | 33 | 29 | 26 |
| 8 | 58 | 44 | 36 | 30 | 55 | 43 | 35 | 30 | 40 | 33 | 28 | 37 | 31 | 27 | 34 | 29 | 26 | 24 |
| 9 | 54 | 41 | 33 | 27 | 51 | 39 | 32 | 27 | 37 | 30 | 26 | 34 | 28 | 24 | 32 | 27 | 23 | 21 |
| 10 | 50 | 37 | 30 | 25 | 48 | 36 | 29 | 24 | 34 | 27 | 23 | 32 | 26 | 22 | 30 | 25 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 10195 | 10195 | 10195 | 10195 |
| 5° | 10317 | 10434 | 10281 | 10011 |
| 10° | 10388 | 10388 | 10329 | 9842 |
| 15° | 10446 | 9840 | 10361 | 9658 |
| 20° | 10526 | 9741 | 10414 | 9492 |
| 25° | 10565 | 9893 | 10436 | 9286 |
| 30° | 10624 | 10083 | 10461 | 8664 |
| 35° | 10660 | 10231 | 10460 | 8002 |
| 40° | 10681 | 10391 | 10452 | 7503 |
| 45° | 10677 | 8260 | 10429 | 6754 |
| 50° | 10653 | 6373 | 10380 | 6137 |
| 55° | 10612 | 5877 | 10347 | 5959 |
| 60° | 10581 | 5549 | 10301 | 6087 |
| 65° | 10497 | 5373 | 10220 | 6370 |
| 70° | 10336 | 5237 | 10062 | 6810 |
| 75° | 9860 | 4975 | 9542 | 7236 |
| 80° | 9234 | 4517 | 8965 | 7213 |
| 85° | 9266 | 5909 | 8596 | 8596 |



TEST NUMBER: P197488

CATALOG NUMBER: 8WSL-LD2-110-UPL15-UNV-L850-CD2-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 342.5 | 2.7 |
| 10°-20° | 972.1 | 7.6 |
| 20°-30° | 1468.9 | 11.5 |
| 30°-40° | 1767.9 | 13.9 |
| 40°-50° | 1797.9 | 14.1 |
| 50°-60° | 1564.9 | 12.3 |
| 60°-70° | 1220.7 | 9.6 |
| 70°-80° | 754.6 | 5.9 |
| 80°-90° | 265.5 | 2.1 |
| 90°-100° | 250.0 | 2.0 |
| 100°-110° | 484.0 | 3.8 |
| 110°-120° | 529.6 | 4.2 |
| 120°-130° | 464.3 | 3.6 |
| 130°-140° | 347.9 | 2.7 |
| 140°-150° | 238.2 | 1.9 |
| 150°-160° | 151.6 | 1.2 |
| 160°-170° | 88.7 | 0.7 |
| 170°-180° | 28.6 | 0.2 |
| 0°-30° | 2783.5 | 21.9 |
| 0°-40° | 4551.4 | 35.7 |
| 0°-60° | 7914.3 | 62.1 |
| 0°-90° | 10155.2 | 79.7 |
| 90°-120° | 1263.6 | 9.9 |
| 90°-150° | 2313.9 | 18.2 |
| 90°-180° | 2583.0 | 20.3 |
| 0°-180° | 12738.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 3599 | 3599 | 3599 | 3599 | 3599 | |
| 5° | 3628 | 3670 | 3616 | 3521 | 3628 | 346 |
| 15° | 3562 | 3356 | 3533 | 3294 | 3562 | 1007 |
| 25° | 3380 | 3165 | 3339 | 2971 | 3380 | 1560 |
| 35° | 3083 | 2959 | 3025 | 2314 | 3083 | 1929 |
| 45° | 2665 | 2062 | 2603 | 1686 | 2665 | 2056 |
| 55° | 2149 | 1190 | 2095 | 1207 | 2149 | 1922 |
| 65° | 1566 | 802 | 1525 | 950 | 1566 | 1548 |
| 75° | 901 | 455 | 872 | 661 | 901 | 954 |
| 85° | 285 | 182 | 264 | 264 | 285 | 284 |
| 90° | 4 | 116 | 4 | 182 | 4 | 22 |
| 95° | 112 | 190 | 87 | 380 | 112 | 116 |
| 105° | 355 | 236 | 343 | 1012 | 355 | 370 |
| 115° | 492 | 269 | 492 | 1215 | 492 | 482 |
| 125° | 500 | 281 | 500 | 1120 | 500 | 444 |
| 135° | 422 | 281 | 422 | 818 | 422 | 327 |
| 145° | 331 | 281 | 339 | 488 | 331 | 211 |
| 155° | 293 | 339 | 289 | 335 | 293 | 135 |
| 165° | 289 | 306 | 285 | 310 | 289 | 82 |
| 175° | 285 | 298 | 285 | 289 | 285 | 27 |
| 180° | 277 | 277 | 277 | 277 | 277 | |



TEST NUMBER: P197488

CATALOG NUMBER: 8WSL-LD2-110-UPL15-UNV-L850-CD2-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3599.3 | 3599.3 | 3599.3 | 3599.3 | 3599.3 | 3599.3 | 3599.3 | 3599.3 | 3599.3 | 3599.3 | 3599.3 |
| 2.5° | 3628.2 | 3611.7 | 3665.4 | 3669.5 | 3640.6 | 3653.0 | 3653.0 | 3607.6 | 3619.9 | 3566.2 | 3574.5 |
| 5° | 3628.2 | 3632.3 | 3690.2 | 3686.1 | 3669.5 | 3673.7 | 3686.1 | 3628.2 | 3615.8 | 3541.4 | 3549.7 |
| 7.5° | 3619.9 | 3640.6 | 3681.9 | 3677.8 | 3661.3 | 3665.4 | 3686.1 | 3636.5 | 3603.4 | 3516.6 | 3512.5 |
| 10° | 3611.7 | 3632.3 | 3665.4 | 3644.7 | 3611.7 | 3624.1 | 3665.4 | 3632.3 | 3591.0 | 3487.7 | 3462.9 |
| 12.5° | 3591.0 | 3611.7 | 3628.2 | 3524.9 | 3467.1 | 3516.6 | 3632.3 | 3611.7 | 3566.2 | 3446.4 | 3413.3 |
| 15° | 3562.1 | 3586.9 | 3566.2 | 3421.6 | 3355.5 | 3400.9 | 3566.2 | 3582.8 | 3533.2 | 3392.7 | 3351.3 |
| 17.5° | 3529.0 | 3558.0 | 3504.2 | 3343.1 | 3293.5 | 3314.2 | 3479.4 | 3545.6 | 3496.0 | 3338.9 | 3289.4 |
| 20° | 3491.8 | 3524.9 | 3429.9 | 3260.4 | 3231.5 | 3248.0 | 3388.5 | 3504.2 | 3454.7 | 3281.1 | 3227.4 |
| 22.5° | 3442.3 | 3479.4 | 3343.1 | 3202.6 | 3215.0 | 3202.6 | 3305.9 | 3450.5 | 3396.8 | 3219.1 | 3157.1 |
| 25° | 3380.3 | 3421.6 | 3256.3 | 3153.0 | 3165.4 | 3161.3 | 3235.6 | 3380.3 | 3338.9 | 3144.7 | 3078.6 |
| 27.5° | 3318.3 | 3359.6 | 3177.8 | 3119.9 | 3140.6 | 3115.8 | 3169.5 | 3305.9 | 3272.8 | 3066.2 | 3004.2 |
| 30° | 3248.0 | 3293.5 | 3099.3 | 3062.1 | 3082.7 | 3066.2 | 3103.4 | 3231.5 | 3198.4 | 2983.6 | 2921.6 |
| 32.5° | 3169.5 | 3215.0 | 3016.6 | 2991.8 | 3020.8 | 3000.1 | 3024.9 | 3148.9 | 3111.7 | 2892.7 | 2818.3 |
| 35° | 3082.7 | 3128.2 | 2929.8 | 2929.8 | 2958.8 | 2934.0 | 2946.4 | 3066.2 | 3024.9 | 2801.7 | 2702.6 |
| 37.5° | 2987.7 | 3037.3 | 2834.8 | 2855.5 | 2888.5 | 2863.7 | 2863.7 | 2979.4 | 2929.8 | 2702.6 | 2570.3 |
| 40° | 2888.5 | 2942.2 | 2735.6 | 2781.1 | 2810.0 | 2781.1 | 2772.8 | 2888.5 | 2826.5 | 2603.4 | 2434.0 |
| 42.5° | 2781.1 | 2838.9 | 2644.7 | 2698.4 | 2661.2 | 2698.4 | 2677.8 | 2793.5 | 2731.5 | 2495.9 | 2293.5 |
| 45° | 2665.4 | 2739.8 | 2553.8 | 2520.7 | 2062.0 | 2495.9 | 2582.7 | 2694.3 | 2603.4 | 2392.6 | 2153.0 |
| 47.5° | 2545.5 | 2624.0 | 2454.6 | 2214.9 | 1657.1 | 2190.2 | 2479.4 | 2586.9 | 2495.9 | 2281.1 | 2012.5 |
| 50° | 2417.4 | 2508.3 | 2351.3 | 1950.5 | 1446.3 | 1925.7 | 2363.7 | 2475.3 | 2355.4 | 2161.2 | 1872.0 |
| 52.5° | 2285.2 | 2384.4 | 2235.6 | 1723.2 | 1305.8 | 1698.4 | 2239.7 | 2355.4 | 2239.7 | 2033.1 | 1735.6 |
| 55° | 2148.8 | 2252.1 | 2099.2 | 1512.4 | 1190.1 | 1508.3 | 2095.1 | 2227.3 | 2095.1 | 1905.0 | 1599.2 |
| 57.5° | 2012.5 | 2128.2 | 1954.6 | 1359.5 | 1090.9 | 1338.9 | 1933.9 | 2095.1 | 1971.1 | 1772.8 | 1467.0 |
| 60° | 1867.8 | 1975.3 | 1797.6 | 1194.3 | 979.4 | 1190.1 | 1772.8 | 1958.7 | 1818.2 | 1636.4 | 1338.9 |
| 62.5° | 1719.1 | 1838.9 | 1628.2 | 1049.6 | 888.5 | 1045.5 | 1599.2 | 1805.8 | 1669.5 | 1495.9 | 1214.9 |
| 65° | 1566.2 | 1681.9 | 1467.0 | 933.9 | 801.7 | 925.6 | 1438.1 | 1648.8 | 1524.8 | 1355.4 | 1099.2 |
| 67.5° | 1409.1 | 1516.6 | 1305.8 | 822.3 | 714.9 | 814.1 | 1272.8 | 1483.5 | 1376.1 | 1210.8 | 975.2 |
| 70° | 1248.0 | 1347.1 | 1140.5 | 714.9 | 632.3 | 710.8 | 1111.6 | 1314.1 | 1214.9 | 1062.0 | 863.7 |
| 72.5° | 1078.5 | 1169.5 | 967.0 | 611.6 | 545.5 | 607.5 | 942.2 | 1140.5 | 1037.2 | 905.0 | 764.5 |
| 75° | 900.9 | 987.6 | 805.8 | 508.3 | 454.6 | 504.1 | 781.0 | 954.6 | 871.9 | 760.4 | 648.8 |
| 77.5° | 731.4 | 818.2 | 640.5 | 392.6 | 347.1 | 384.3 | 611.6 | 781.0 | 710.8 | 615.7 | 528.9 |
| 80° | 566.1 | 636.4 | 471.1 | 293.4 | 276.9 | 293.4 | 458.7 | 599.2 | 549.6 | 483.5 | 413.2 |
| 82.5° | 417.4 | 458.7 | 318.2 | 239.7 | 239.7 | 239.7 | 309.9 | 425.6 | 405.0 | 359.5 | 314.1 |
| 85° | 285.1 | 285.1 | 214.9 | 181.8 | 181.8 | 181.8 | 210.8 | 252.1 | 264.5 | 239.7 | 239.7 |
| 87.5° | 119.8 | 124.0 | 111.6 | 99.2 | 95.0 | 99.2 | 107.4 | 103.3 | 103.3 | 115.7 | 144.6 |
| 90° | 4.1 | 53.7 | 90.9 | 111.6 | 115.7 | 107.4 | 82.6 | 49.6 | 4.1 | 70.3 | 128.1 |
| 92.5° | 28.9 | 115.7 | 107.4 | 140.5 | 144.6 | 132.2 | 111.6 | 90.9 | 16.5 | 128.1 | 136.4 |
| 95° | 111.6 | 136.4 | 210.8 | 214.9 | 190.1 | 181.8 | 206.6 | 128.1 | 86.8 | 173.6 | 347.1 |
| 97.5° | 177.7 | 206.6 | 190.1 | 247.9 | 281.0 | 247.9 | 198.4 | 198.4 | 165.3 | 268.6 | 405.0 |
| 100° | 243.8 | 219.0 | 194.2 | 214.9 | 247.9 | 219.0 | 186.0 | 219.0 | 231.4 | 314.1 | 495.9 |
| 102.5° | 305.8 | 243.8 | 243.8 | 210.8 | 214.9 | 206.6 | 235.5 | 239.7 | 289.3 | 355.4 | 611.6 |
| 105° | 355.4 | 252.1 | 256.2 | 239.7 | 235.5 | 239.7 | 256.2 | 256.2 | 343.0 | 392.6 | 665.3 |
| 107.5° | 400.8 | 260.3 | 252.1 | 264.5 | 268.6 | 264.5 | 252.1 | 260.3 | 392.6 | 417.4 | 677.7 |
| 110° | 438.0 | 264.5 | 256.2 | 264.5 | 276.9 | 264.5 | 256.2 | 268.6 | 433.9 | 442.2 | 686.0 |



TEST NUMBER: P197488

CATALOG NUMBER: 8WSL-LD2-110-UPL15-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 471.1 | 268.6 | 264.5 | 260.3 | 272.7 | 260.3 | 264.5 | 276.9 | 467.0 | 454.6 | 686.0 |
| 115° | 491.8 | 272.7 | 264.5 | 264.5 | 268.6 | 264.5 | 268.6 | 281.0 | 491.8 | 458.7 | 677.7 |
| 117.5° | 504.1 | 281.0 | 268.6 | 272.7 | 276.9 | 272.7 | 268.6 | 289.3 | 508.3 | 475.2 | 673.6 |
| 120° | 512.4 | 309.9 | 268.6 | 276.9 | 281.0 | 276.9 | 268.6 | 314.1 | 512.4 | 483.5 | 657.0 |
| 122.5° | 508.3 | 322.3 | 272.7 | 276.9 | 285.1 | 276.9 | 272.7 | 326.5 | 508.3 | 479.4 | 636.4 |
| 125° | 500.0 | 334.7 | 272.7 | 272.7 | 281.0 | 276.9 | 276.9 | 334.7 | 500.0 | 471.1 | 607.5 |
| 127.5° | 483.5 | 363.6 | 272.7 | 276.9 | 276.9 | 276.9 | 276.9 | 359.5 | 483.5 | 475.2 | 578.5 |
| 130° | 462.8 | 384.3 | 264.5 | 281.0 | 276.9 | 285.1 | 272.7 | 384.3 | 462.8 | 462.8 | 553.7 |
| 132.5° | 442.2 | 392.6 | 264.5 | 281.0 | 281.0 | 285.1 | 268.6 | 392.6 | 442.2 | 446.3 | 528.9 |
| 135° | 421.5 | 400.8 | 281.0 | 276.9 | 281.0 | 281.0 | 285.1 | 400.8 | 421.5 | 429.8 | 512.4 |
| 137.5° | 400.8 | 405.0 | 301.7 | 264.5 | 276.9 | 268.6 | 309.9 | 405.0 | 405.0 | 405.0 | 487.6 |
| 140° | 380.2 | 400.8 | 318.2 | 256.2 | 260.3 | 264.5 | 326.5 | 405.0 | 388.4 | 392.6 | 446.3 |
| 142.5° | 355.4 | 388.4 | 330.6 | 276.9 | 256.2 | 285.1 | 338.9 | 400.8 | 363.6 | 380.2 | 425.6 |
| 145° | 330.6 | 376.0 | 355.4 | 305.8 | 281.0 | 318.2 | 367.8 | 388.4 | 338.9 | 371.9 | 413.2 |
| 147.5° | 309.9 | 355.4 | 359.5 | 322.3 | 309.9 | 334.7 | 371.9 | 371.9 | 314.1 | 355.4 | 384.3 |
| 150° | 297.5 | 334.7 | 347.1 | 334.7 | 322.3 | 351.3 | 363.6 | 343.0 | 297.5 | 343.0 | 359.5 |
| 152.5° | 293.4 | 318.2 | 318.2 | 351.3 | 347.1 | 367.8 | 334.7 | 326.5 | 289.3 | 330.6 | 326.5 |
| 155° | 293.4 | 314.1 | 305.8 | 322.3 | 338.9 | 338.9 | 318.2 | 318.2 | 289.3 | 330.6 | 309.9 |
| 157.5° | 289.3 | 318.2 | 305.8 | 301.7 | 309.9 | 318.2 | 318.2 | 322.3 | 289.3 | 322.3 | 309.9 |
| 160° | 289.3 | 322.3 | 309.9 | 297.5 | 301.7 | 314.1 | 322.3 | 322.3 | 289.3 | 322.3 | 314.1 |
| 162.5° | 289.3 | 314.1 | 314.1 | 301.7 | 301.7 | 318.2 | 322.3 | 318.2 | 289.3 | 314.1 | 322.3 |
| 165° | 289.3 | 314.1 | 318.2 | 309.9 | 305.8 | 326.5 | 322.3 | 309.9 | 285.1 | 309.9 | 326.5 |
| 167.5° | 289.3 | 305.8 | 322.3 | 314.1 | 314.1 | 326.5 | 326.5 | 305.8 | 285.1 | 297.5 | 326.5 |
| 170° | 289.3 | 301.7 | 318.2 | 314.1 | 318.2 | 330.6 | 318.2 | 301.7 | 289.3 | 293.4 | 314.1 |
| 172.5° | 289.3 | 293.4 | 309.9 | 314.1 | 314.1 | 322.3 | 309.9 | 293.4 | 289.3 | 285.1 | 301.7 |
| 175° | 285.1 | 293.4 | 301.7 | 301.7 | 297.5 | 309.9 | 297.5 | 289.3 | 285.1 | 281.0 | 289.3 |
| 177.5° | 281.0 | 285.1 | 293.4 | 293.4 | 285.1 | 293.4 | 285.1 | 281.0 | 281.0 | 276.9 | 285.1 |
| 180° | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 |



TEST NUMBER: P197488

CATALOG NUMBER: 8WSL-LD2-110-UPL15-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3599.3 | 3599.3 | 3599.3 | 3599.3 | 3599.3 | 3599.3 |
| 2.5° | 3570.4 | 3541.4 | 3549.7 | 3574.5 | 3570.4 | 3628.2 |
| 5° | 3533.2 | 3520.8 | 3520.8 | 3558.0 | 3553.8 | 3628.2 |
| 7.5° | 3491.8 | 3471.2 | 3483.6 | 3524.9 | 3537.3 | 3619.9 |
| 10° | 3438.1 | 3421.6 | 3425.7 | 3487.7 | 3508.4 | 3611.7 |
| 12.5° | 3384.4 | 3367.9 | 3380.3 | 3438.1 | 3467.1 | 3591.0 |
| 15° | 3322.4 | 3293.5 | 3326.6 | 3388.5 | 3425.7 | 3562.1 |
| 17.5° | 3248.0 | 3215.0 | 3248.0 | 3330.7 | 3376.1 | 3529.0 |
| 20° | 3181.9 | 3148.9 | 3169.5 | 3256.3 | 3318.3 | 3491.8 |
| 22.5° | 3107.5 | 3066.2 | 3082.7 | 3177.8 | 3256.3 | 3442.3 |
| 25° | 3024.9 | 2971.2 | 2996.0 | 3099.3 | 3186.1 | 3380.3 |
| 27.5° | 2917.4 | 2826.5 | 2888.5 | 3016.6 | 3099.3 | 3318.3 |
| 30° | 2768.7 | 2648.8 | 2748.0 | 2925.7 | 3020.8 | 3248.0 |
| 32.5° | 2595.1 | 2467.0 | 2574.5 | 2814.1 | 2929.8 | 3169.5 |
| 35° | 2425.7 | 2314.1 | 2413.3 | 2698.4 | 2838.9 | 3082.7 |
| 37.5° | 2276.9 | 2173.6 | 2264.5 | 2566.2 | 2739.8 | 2987.7 |
| 40° | 2124.0 | 2029.0 | 2119.9 | 2425.7 | 2640.6 | 2888.5 |
| 42.5° | 1983.5 | 1892.6 | 1979.4 | 2285.2 | 2533.1 | 2781.1 |
| 45° | 1834.8 | 1686.0 | 1826.5 | 2140.6 | 2417.4 | 2665.4 |
| 47.5° | 1677.7 | 1520.7 | 1665.3 | 2000.1 | 2301.7 | 2545.5 |
| 50° | 1533.1 | 1392.6 | 1524.8 | 1855.4 | 2177.8 | 2417.4 |
| 52.5° | 1405.0 | 1285.2 | 1400.9 | 1710.8 | 2049.7 | 2285.2 |
| 55° | 1285.2 | 1206.6 | 1289.3 | 1578.6 | 1929.8 | 2148.8 |
| 57.5° | 1190.1 | 1136.4 | 1194.3 | 1450.5 | 1797.6 | 2012.5 |
| 60° | 1107.5 | 1074.4 | 1111.6 | 1322.4 | 1657.1 | 1867.8 |
| 62.5° | 1016.6 | 1004.2 | 1016.6 | 1198.4 | 1520.7 | 1719.1 |
| 65° | 938.0 | 950.4 | 938.0 | 1086.8 | 1376.1 | 1566.2 |
| 67.5° | 863.7 | 892.6 | 867.8 | 967.0 | 1231.4 | 1409.1 |
| 70° | 781.0 | 822.3 | 785.1 | 859.5 | 1082.7 | 1248.0 |
| 72.5° | 694.2 | 743.8 | 694.2 | 756.2 | 925.6 | 1078.5 |
| 75° | 603.3 | 661.2 | 607.5 | 644.6 | 776.9 | 900.9 |
| 77.5° | 504.1 | 541.3 | 512.4 | 524.8 | 632.3 | 731.4 |
| 80° | 400.8 | 442.2 | 405.0 | 413.2 | 500.0 | 566.1 |
| 82.5° | 334.7 | 363.6 | 338.9 | 314.1 | 371.9 | 417.4 |
| 85° | 247.9 | 264.5 | 256.2 | 243.8 | 256.2 | 285.1 |
| 87.5° | 152.9 | 161.2 | 152.9 | 152.9 | 132.2 | 119.8 |
| 90° | 169.4 | 181.8 | 169.4 | 132.2 | 74.4 | 4.1 |
| 92.5° | 173.6 | 190.1 | 173.6 | 144.6 | 140.5 | 28.9 |
| 95° | 388.4 | 380.2 | 413.2 | 376.0 | 214.9 | 111.6 |
| 97.5° | 603.3 | 690.1 | 624.0 | 450.4 | 289.3 | 177.7 |
| 100° | 694.2 | 776.9 | 723.2 | 562.0 | 330.6 | 243.8 |
| 102.5° | 801.7 | 892.6 | 834.7 | 657.0 | 371.9 | 305.8 |
| 105° | 933.9 | 1012.4 | 962.8 | 694.2 | 409.1 | 355.4 |
| 107.5° | 1004.2 | 1124.0 | 1024.8 | 710.8 | 433.9 | 400.8 |
| 110° | 1041.4 | 1169.5 | 1074.4 | 714.9 | 454.6 | 438.0 |



TEST NUMBER: P197488

CATALOG NUMBER: 8WSL-LD2-110-UPL15-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|-------|--------|-------|
| 112.5° | 1070.3 | 1194.3 | 1095.1 | 714.9 | 462.8 | 471.1 |
| 115° | 1070.3 | 1214.9 | 1095.1 | 702.5 | 475.2 | 491.8 |
| 117.5° | 1070.3 | 1202.5 | 1095.1 | 690.1 | 491.8 | 504.1 |
| 120° | 1033.1 | 1198.4 | 1066.1 | 673.6 | 495.9 | 512.4 |
| 122.5° | 1004.2 | 1165.3 | 1024.8 | 652.9 | 495.9 | 508.3 |
| 125° | 950.4 | 1119.9 | 975.2 | 628.1 | 487.6 | 500.0 |
| 127.5° | 892.6 | 1053.8 | 913.3 | 599.2 | 491.8 | 483.5 |
| 130° | 838.9 | 979.4 | 851.3 | 570.3 | 475.2 | 462.8 |
| 132.5° | 768.6 | 896.7 | 781.0 | 549.6 | 458.7 | 442.2 |
| 135° | 702.5 | 818.2 | 719.0 | 533.1 | 438.0 | 421.5 |
| 137.5° | 632.3 | 735.6 | 648.8 | 500.0 | 417.4 | 400.8 |
| 140° | 549.6 | 632.3 | 566.1 | 462.8 | 405.0 | 380.2 |
| 142.5° | 495.9 | 541.3 | 512.4 | 446.3 | 388.4 | 355.4 |
| 145° | 462.8 | 487.6 | 475.2 | 429.8 | 380.2 | 330.6 |
| 147.5° | 429.8 | 454.6 | 442.2 | 396.7 | 359.5 | 309.9 |
| 150° | 417.4 | 417.4 | 433.9 | 367.8 | 347.1 | 297.5 |
| 152.5° | 371.9 | 405.0 | 388.4 | 334.7 | 338.9 | 293.4 |
| 155° | 318.2 | 334.7 | 334.7 | 322.3 | 338.9 | 293.4 |
| 157.5° | 297.5 | 309.9 | 314.1 | 322.3 | 330.6 | 289.3 |
| 160° | 297.5 | 301.7 | 314.1 | 326.5 | 326.5 | 289.3 |
| 162.5° | 305.8 | 301.7 | 322.3 | 334.7 | 318.2 | 289.3 |
| 165° | 314.1 | 309.9 | 330.6 | 338.9 | 309.9 | 289.3 |
| 167.5° | 322.3 | 322.3 | 338.9 | 334.7 | 301.7 | 289.3 |
| 170° | 322.3 | 330.6 | 338.9 | 322.3 | 297.5 | 289.3 |
| 172.5° | 309.9 | 314.1 | 322.3 | 301.7 | 285.1 | 289.3 |
| 175° | 293.4 | 289.3 | 301.7 | 289.3 | 285.1 | 285.1 |
| 177.5° | 285.1 | 272.7 | 285.1 | 281.0 | 276.9 | 281.0 |
| 180° | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 |

(END OF REPORT)